

RECLAMATION

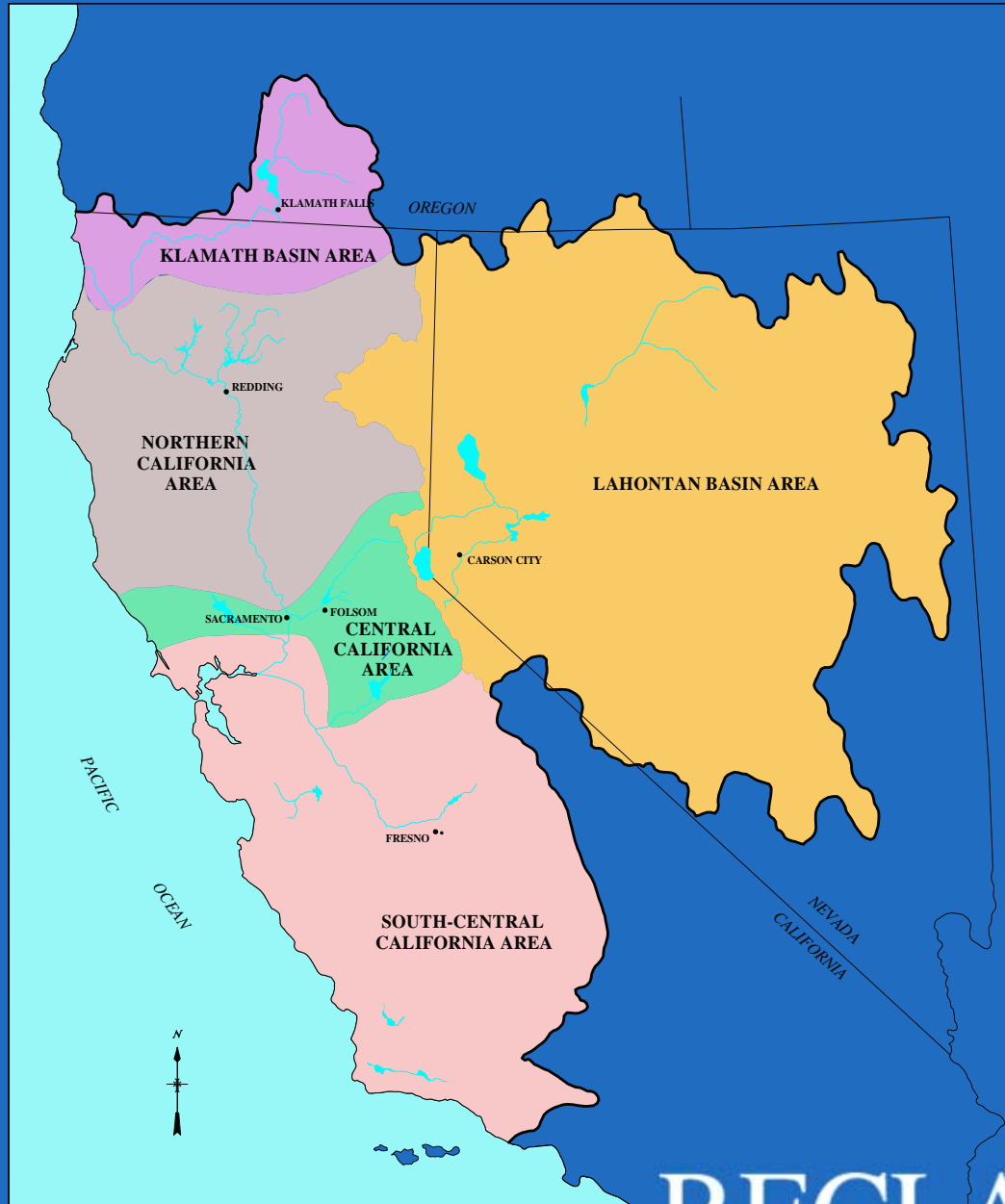
Managing Water in the West

Water Conservation Standard Criteria for Evaluating Water Management Plans



U.S. Department of the Interior
Bureau of Reclamation

MID-PACIFIC REGION AREA OFFICES



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Area Office Representatives

- **Dennis Perkins- Northern California**
- **Lucille Billingsley- Central California**
- **Dave Woolley- South Central California**

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Criteria for Evaluating Water Management Plans

- Reclamation Reform Act 1982 (RRA)
 - Required Agricultural and M & I water contractors to provide Water Management Plans (Plans)
 - Each Plan shall contain definite goals, water conservation measures, and a time schedule to meet these objectives
 - Plans need to be updated every 5 years

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Criteria for Evaluating Water Management Plans

- **Central Valley Project Improvement Act of 1992**
 - Required establishment of an office on water conservation and best management practices (BMPs)
 - This office was required to develop Criteria for Evaluating Plans and must update the criteria at least every three years
 - Criteria used to evaluate Plans required by Section 210 of the Reclamation Reform Act of 1982

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Criteria for Evaluating Water Management Plans

- Development of Water Conservation Criteria

- STANDARD CRITERIA

- REGIONAL CRITERIA

- REFUGE CRITERIA

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Standard Criteria

- First developed in 1993
- Revised four times
- Management approval
- Public scoping
- Public response
- Finalized

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Standard Criteria

- Criteria includes the following:
 - District Description
 - i.e. History, Facilities, Water Management, Pricing and Billing, etc.
 - Inventory of Water Resources
 - i.e. Water Supplies, Water Shortage Contingency Plans, and Water Accounting
 - Best Management Practices
 - i.e. Agriculture and Urban

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Best Management Practices Agricultural

6 required BMPs

- Water Measurement**
- Water Conservation Coordinator**
- Water Mgmt Services to Users**
- Pricing Structure**
- Evaluating Policy and Need for Changes**
- Evaluation and Improvement of Pump Efficiencies**

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Best Management Practices Agricultural

10 Exemptible BMPs

- Facilitate alternative land use
- Facilitate use of recycled water
- On-farm incentives
- Incentive pricing
- Regulatory reservoirs
- Canal lining and piping
- Spill and tailwater recovery systems
- Conjunctive use
- Canal Automation
- Increase flexibility of water deliveries

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Best Management Practices Urban

- **Water survey programs for residential customers**
- **Residential plumbing retrofits**
- **System water audits, leak detection, and repair**
- **Metering with commodity rates**
- **Large landscape conversation programs**

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Best Management Practices Urban

- **High-efficiency washing machine rebate programs**
- **Public information programs**
- **School education programs**
- **Conservation programs for CII accounts**

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Best Management Practices Urban

- **Wholesale agency assistance programs**
- **Conservation pricing**
- **Water waste prohibition**
- **Residential toilet replacement programs**

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Significant Changes to Standard Criteria

- **Plans should be submitted electronically**
- **Current 5 year average of 2,000 acre-feet**
- **New Agricultural Exemptible BMPs**
 - **Plan to measure outflow**
 - **GIS Mapping**

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Significant Changes to Standard Criteria

- *Outflow Measurement*
 - Measure the volume of outflow with methods or devices that are operated and maintained to a reasonable degree of accuracy, under most conditions, to $\pm 20\%$.
 - Or include the Estimated Cost and Milestone schedule.

Significant Changes to Standard Criteria

- *Inflow/Outflow Definition*
 - Inflow - Water that enters the District boundaries which also enters the District distribution system.
 - Outflow – Water that leaves the District boundaries which was once inside the District distribution system.

Significant Changes to Standard Criteria

- *Mapping*
 - Develop Geographic Information System-based maps of the distribution system and drainage system.
 - Or include the Estimated Cost and Milestone schedule.

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Planning and Implementation Resources

- Updated Guidebook
- Plan on CD
- Website-- <http://www.usbr.gov/mp/watershare/>
- Consultants
- Area Office Representatives
- Water for America
 - WCFSP
 - Challenge Grants
- CALFED WUE Grants

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Other Considerations

- Revision of CUWCC BMPs
- 20X2020
- AB 2175 Laird Bill

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